

3in1 Tool



Workstation Installation Guide

Version 3.5

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James Van Sickler, 3in1 SME/Administrator
NIPR E-Mail: james.vansickler@usaficom.mil
SIPR E-Mail: james.vansickler@usaficom.smil.mil
DSN: 311-824-4024
Evatis: 77-013979



Joint Contingency Contracting System



Defense Logistics Agency

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Network Admin/IMO Checklist (Windows XP)

Network administrators/IMOs should use the following checklists to complete 3in1 system setup tasks on Windows XP systems. Refer to the referenced page numbers in this manual for information regarding the steps used to complete each task.

	System Set Up (Windows XP)	Page	✓
1	Determine if computer(s) have the prerequisite applications: <ul style="list-style-type: none"> ➤ Windows XP Professional ➤ MS office 2007 or higher is recommended ➤ MS SQL Server 2005 Express SP3 or higher ➤ .Net Framework 3.5 SP1 ➤ Sync Framework 2.1 – Synchronization Framework ➤ Sync Framework 2.1 – Database Providers <p>NOTE: If ApproveIt is installed, ensure it is v6.5 or higher</p>	3	
2	Verifying Prerequisite COM+ Services Are Enabled	6	
3	Install the required software	7	
4	Ensure NTFS permissions of Full Control has been granted to the Users Group for the “BTA” program directory and all subdirectories	13	
5	Ensure proxy, firewall, HBSS, and appropriate system policies have been opened to allow workstation application and device access to the prime database servers using TCP Port 80 and 443 (HTTP and HTTPS)	18	
6	Determine availability and location of the LAN connection(s): <ul style="list-style-type: none"> ➤ For KO and FOO/PA identify a LAN drop for the device if connecting via NIPR Network ➤ Registration of MAC address of Ethernet Adapter may be required ➤ Make sure Port 443 and 80 are open for use with the 3in1 workstation and device. Also ensure the destination https://origin-www.jccs.gov/Svc is accessible and the IP address is 156.112.92.52 	18	

Network Admin/IMO Checklist (Windows 7)

Network administrators/IMOs should use the following checklists to complete 3in1 system setup tasks on Windows 7 systems. Refer to the referenced page numbers in this manual for information regarding the steps used to complete each task.

	System Set Up	Page	✓
1	<p>Determine if computer(s) have the prerequisite applications:</p> <ul style="list-style-type: none"> ➤ Windows 7 Professional or Enterprise Edition ➤ MS office 2007 or higher is recommended ➤ MS SQL Server 2005 Express SP3 or higher ➤ Sync Framework 2.1 – Synchronization ➤ Sync Framework 2.1 – Database Providers ➤ Microsoft SQL Server 2005 Management Objects Collection <p>NOTE: If ApproveIt is installed, ensure it is v6.5 or higher Set Applocker Rule enforcement to “Audit only” if it is set to “Enforce rules” prior to beginning the installation process.</p>	3	
3	Install the required software	7	
4	Ensure NTFS permissions of Full Control has been granted to the Users Group for the “BTA” program directory and all subdirectories	13	
5	Ensure the proper reservation of the URLACL necessary to allow the Offline Web Services to run on the user’s local computer (Windows 7 users only)	15	
6	Ensure proxy, firewall, HBSS, and appropriate system policies have been opened to allow workstation application and device access to the prime database servers using TCP Port 80 and 443 (HTTP and HTTPS)	18	
7	<p>Determine availability and location of the LAN connection(s):</p> <ul style="list-style-type: none"> ➤ For KO and FOO/PA identify a LAN drop for the device if connecting via NIPR Network ➤ Registration of MAC address of Ethernet Adapter may be required ➤ Make sure Port 443 and 80 are open for use with the 3in1 workstation and device. Also ensure the destination https://origin-www.jccs.gov/Svc is accessible and the IP address is 156.112.92.52 	18	

Overview of the 3in1 Workstation Application Installation

Objectives

The purpose of this guide is to enable you to:

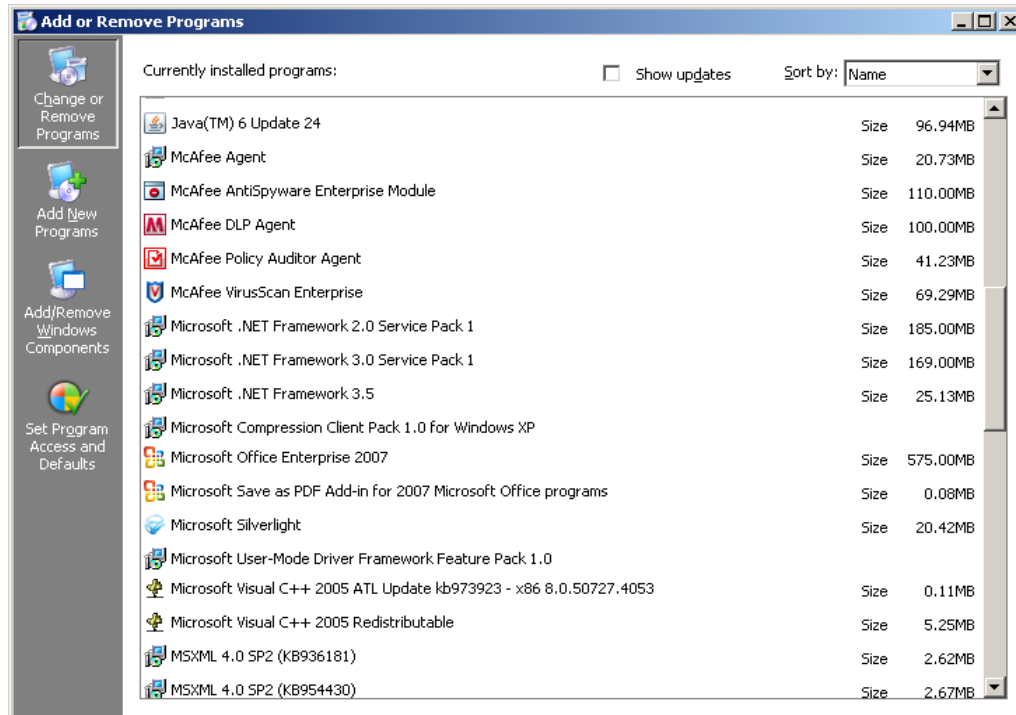
- ☐ Install required third party software before installing the 3in1 Tool Workstation
- ☐ Install the 3in1 Workstation application on a computer
- ☐ Establish correct Proxy and Firewall settings
- ☐ Change user permissions on a computer, if necessary, to enable users to access Workstation application files

Installing Prerequisite Software

When preparing to install the 3in1 Workstation for the first time, log on with your IMO or Admin account. Open **Control Panel->Add or Remove Programs**, and check if the pre-requisite programs are installed:

- Approvelt v6.5 or later
- Microsoft SQL Server 2005 Express Edition Service Pack 3 or 4 (Full Install)
- Sync Framework 2.1 Redistributables: Synchronization-v2.1-x86-ENU.msi
- Sync Framework 2.1 Redistributables: DatabaseProviders-v3.1-x86-ENU.msi
- 3in1 Workstation: JCCS3n1 Workstation 3.1.0.1p.msi

It is necessary to install any of the programs that are not installed.



Windows Control Panel, Add or Remove Programs

BTA JCCS3n1 Workstation

Name: JCCS3n1 Workstation

Version: 3.0

Publisher: BTA

Windows XP:

JCCS3n1 Workstation requires the following prerequisite software components from Microsoft in order to function properly.

- .NET Framework 3.5 SP1
- SQL Server 2005 Express Edition SP3
- Sync Framework 2.1 Redistributables : Synchronization-v2.1-x86-ENU.msi
- Sync Framework 2.1 Redistributables : DatabaseProviders-v3.1-x86-ENU.msi

Windows 7:

JCCS3n1 Workstation requires the following prerequisite software components from Microsoft in order to function properly.

- .NET Framework 3.5 SP1
- SQL Server 2005 Express Edition SP3 (Note: Windows 7 users will need to install the 64bit version of SQL Server Express.)
- SQLServer2005_XMO_x64.msi Additionally, Windows 7 users may need to install parts of the Feature Pack for Microsoft SQL Server 2005. This is for Windows 7 only.
- Sync Framework 2.1 Redistributables : Synchronization-v2.1-x64-ENU.msi
- Sync Framework 2.1 Redistributables : DatabaseProviders-v3.1-x64-ENU.msi

You must download and install these components if they are not already present on your machine. This task may require either help or permission from your network administrator. Otherwise, download the files and install the components in the order they are listed.

JCCS 3 in 1:

The following file can be used to install JCCS3n1 Workstation:

- JCCS3n1 Workstation 3.1.0.1p.msi

The following compressed file is also provided. This file can be decompressed into a directory on your computer to avoid having to use the setup program. Its useful for running two or more versions of the program on the same machine.

- JCCS3n1 Workstation 3.1.0.1p.zip

You should uninstall the previous versions of the JCCS Workstation before installing.

Note: Some users have reported that they must manually stop the "JCCS3n1 Workstation Services (Local)" service in order to complete an uninstall of the workstation components.

XP Prerequisite software highlighted on the 3in1 Tool Workstation download page

Software download Links:

SQL Server 2005 Express SP4, 64-bit and 32-bit installer bundle, 54.8MB (SQLEXPRESS.EXE):

SQL Server 2005 Express SP4, 32-bit installer, 35.9MB (SQLEXPRESS32.EXE):

<http://www.microsoft.com/download/en/details.aspx?id=184>

SQL Server 2005 setup fails when MSXML Core Services 6.0 Service Pack 2 has already been installed – Microsoft Fix It 50568

<http://go.microsoft.com/?linkid=9758036>

.NET Framework 3.5 SP1 - Full Package

<http://www.microsoft.com/download/en/details.aspx?id=25150>

[Sync Framework 2.1 Redistributables : Synchronization-v2.1-x86-ENU.msi](#)

[Sync Framework 2.1 Redistributables : DatabaseProviders-v3.1-x64-ENU.msi](#)

The [JCCS 3in1 Download Page](#) (CAC Required)

Current 3in1 Workstation:

[JCCS3n1 Workstation 3.1.0.1p.msi](#)

Windows 7 Pre-requisites

(Note: Windows 7 x64 users will need to install the 64bit version of SQL Server 2005 Express)

SQL Server 2005 Express SP4, 64-bit and 32-bit installer bundle, 54.8MB (SQLEXPRESS.EXE):

SQL Server 2005 Express SP4, 32-bit installer, 35.9MB (SQLEXPRESS32.EXE):

<http://www.microsoft.com/download/en/details.aspx?id=184>

Microsoft SQL Server 2005 Management Objects Collection

Additionally, Windows 7 users may need to install parts of the Feature Pack for Microsoft SQL Server 2005. This is for Windows 7 only.

Download Link, 32-bit: [SQLServer2005_XMO.msi](#)

Download Link, 64-bit: [SQLServer2005_XMO_x64.msi](#)

[Sync Framework 2.1 Redistributables : Synchronization-v2.1-x86-ENU.msi](#)

[Sync Framework 2.1 Redistributables : DatabaseProviders-v3.1-x64-ENU.msi](#)

Current 3in1 Workstation:

[JCCS3n1 Workstation 3.1.0.1p.msi](#)

Verifying Prerequisite COM+ Services Are Enabled

1. Log on with your IMO account.
2. Click on Start, Run, services.msc
3. If the Distributed Transaction Coordinator Service is Disabled, set the Properties to Manual and start the Service.
4. Close the Services Console.
5. Click on Start, Run, dcomcnfg to launch the Component Services console.
6. Click on the + next to Computers, then My Computer, then DCOM Config. Click on OK for all prompts.
7. Close the Component Services console.

Verifying Applocker Rule Enforcement is set to “Audit Only”

NOTE: This applies to Windows 7 Enterprise, Afghan Image v10.3a and later.

1. Click on Start
2. Administrative Tools (if missing, set to display in the Start Menu Properties)
3. Right-click on Local Security Policy
4. Select "Run as Administrator"
5. Double-click on "Application Control Policies"
6. Click on Applocker
7. Click on "Configure rule enforcement"
8. Change "Enforce rules" to "Audit only" in dropdown
9. Click on Apply, then OK

Copying the Install Files to the Local Administrator Desktop Folder

Create the following Folder and copy the installation files from the CD into the folder:

C:\Documents and Settings\Administrator\Desktop\3in1 Install Files

Or for Windows 7:

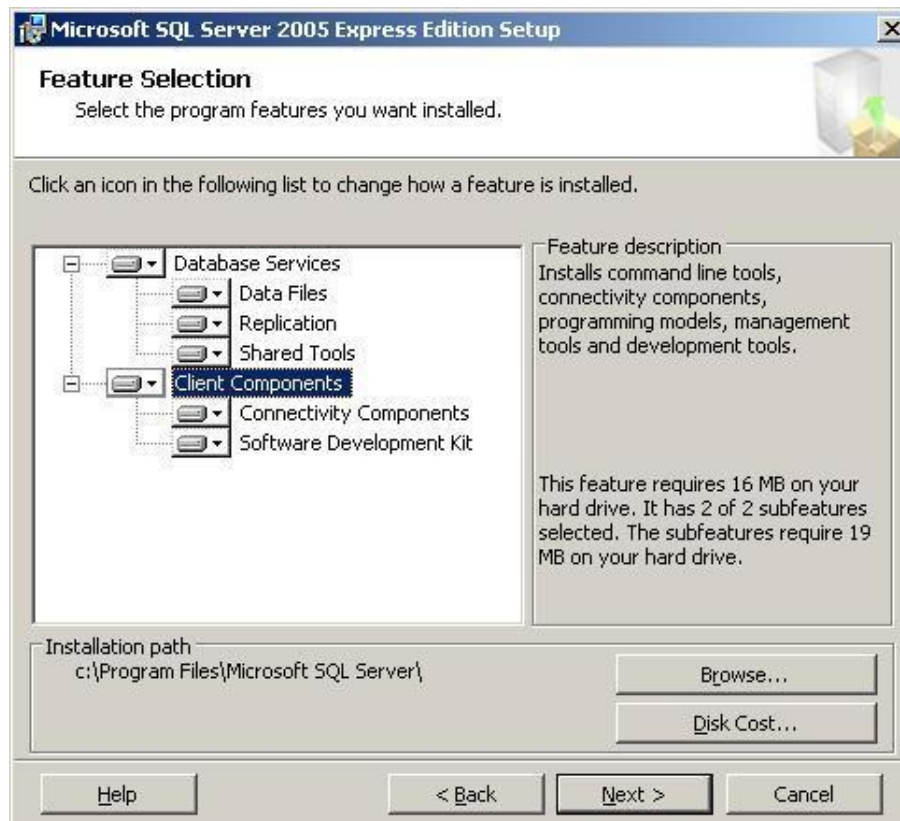
C:\Users\{renamed local administrator}\Desktop\3in1 Install Files

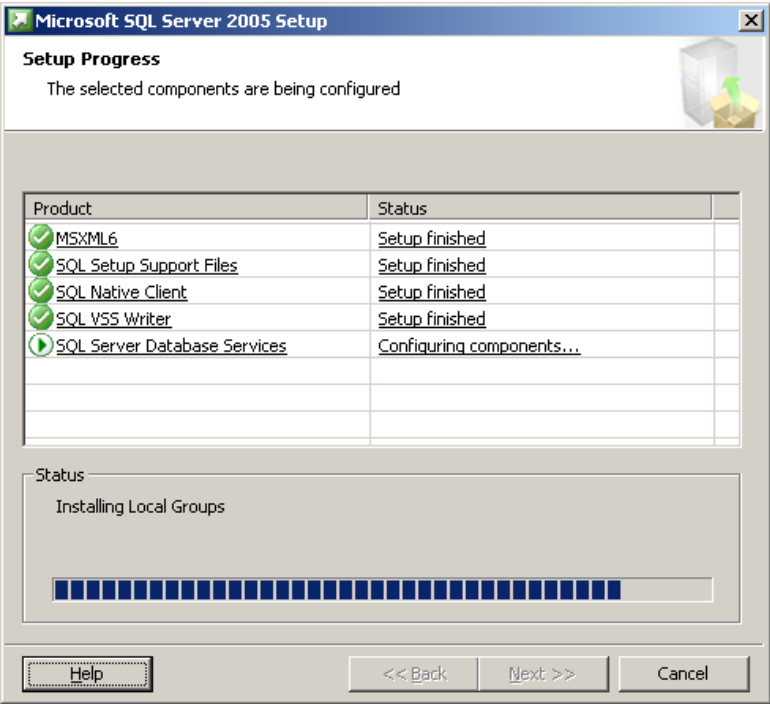
3in1 Prerequisite and Workstation Installation

Installing Microsoft SQL Server 2005 Express SP4

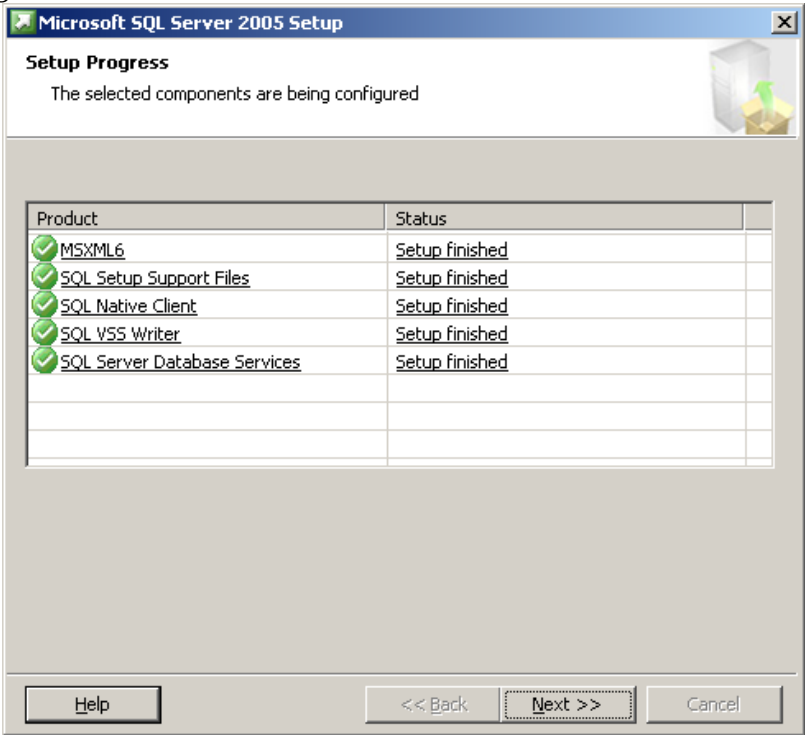
NOTE: For Windows 7, Right-click on the installers and select “Run as Administrator”

1. Run **1st_SQLEXP2005SP4_32.EXE**
 - a. If you receive a failure to install MS SQL Native Client (Red X next to the MS SQL Native Client entry), cancel the SQL installation.
 - b. Launch Control Panel, Add or Remove Programs and Remove the SQL Native Client.
 - c. Verify that the Distributed Transaction Coordinator service is running.
2. Run **1st_SQLEXP2005SP4_32.EXE** again. This time the install should run without errors.
3. During the SQL set up, you must select the option to install **all** of the features of SQL. When all of the features have been selected, the Feature Selection dialog should look like the screen shot on the next page. All entries should be white; no grey or red.

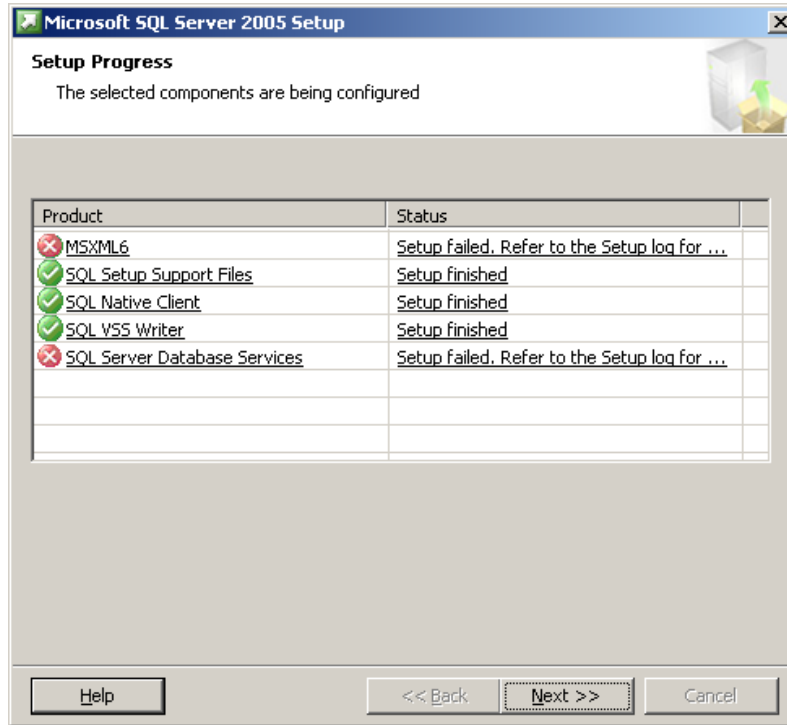




The following figure confirms a successful installation.



An issue may occur during the installation of the Microsoft SQL Server 2005 Express Edition. The following figure shows that the MSXML6 and SQL Server Database Services failed.



To resolve the problem:

1. Open a web browser and navigate to this Microsoft support page:
<http://support.microsoft.com/kb/968749>

Experience a more beautiful web United States Change All Microsoft Sites

Microsoft Support Search Microsoft Support

Support Home Solution Centers Advanced Search Buy Products

Article ID: 968749 - Last Review: February 1, 2011 - Revisions: 11.0

SQL Server 2005 setup fails when MSXML Core Services 6.0 Service Pack 2 has already been installed

View products that this article applies to.

On This Page

Expand all | Collapse all

SYMPTOMS

Consider the following scenario:

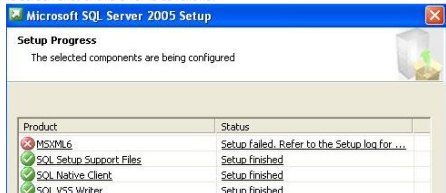
- You have a Windows XP-based computer on which you apply the update for Microsoft XML Core Services (MSXML) 6.0 that is described in the following Microsoft Knowledge Base article:

954459 MS08-069: Description of the security update for XML Core Services 6.0: November 11, 2008
- After you apply this MSXML update, you upgrade the computer to Windows XP Service Pack 3 (SP3).

When you try to install Microsoft SQL Server 2005 in this scenario, you receive the following error message:

Installation of MSXML 6 Service Pack 2 (KB954459) failed because a higher version already exists on the machine. To proceed, uninstall the higher version and then run MSXML 6 Service Pack 2 (KB954459) Setup again.

The screen shot of this error is as follows:



The screenshot shows the 'Microsoft SQL Server 2005 Setup' window with the 'Setup Progress' tab selected. The progress bar indicates that the selected components are being configured. A table lists the components and their status:

Product	Status
MSXML 6	Setup failed. Refer to the Setup log for...
SQL Setup Support Files	Setup finished
SQL Native Client	Setup finished
SQL VSS Writer	Setup finished

Other Resources

- Other Support Sites
- Community
- Get Help Now
- Article Translations
 - الترجمة (العربية)

View related content

- FIX: SQL Server 2008 Setup fails if you installed the security ...
- Description of an update for MSXML Core Services 6.0 Service Pack 2
- MS06-061: Vulnerabilities in Microsoft XML Core Services could ...
- Error message when you try to install a SQL Server 2005 service ...

Search related topics

- Sql server 2005 install fails
- Msxml 6 uninstall fatal error during in...
- Sql server installation fails Windows S...
- This package is not supported on this o...
- Sql server 2005 installation failed

Related Support Centers

- SQL Server 2005

2. Scroll down to the Workaround section and click the **Fix it for me** icon.

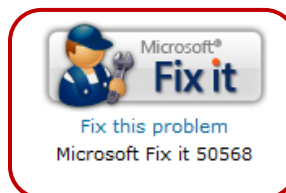
WORKAROUND

To have us fix this problem for you, go to the "Fix it for me" section. If you would rather fix this problem yourself, go to the "Let me fix it myself" section.

[Back to the top](#)

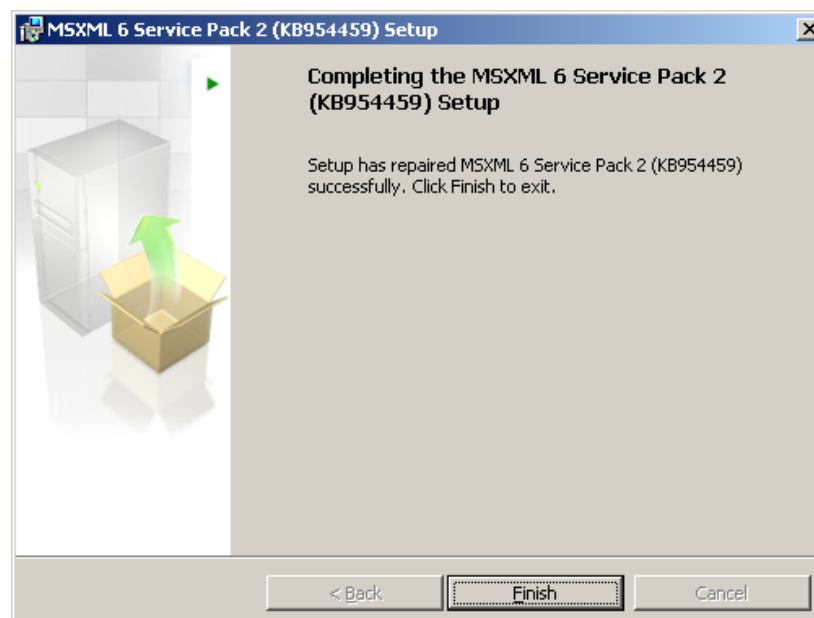
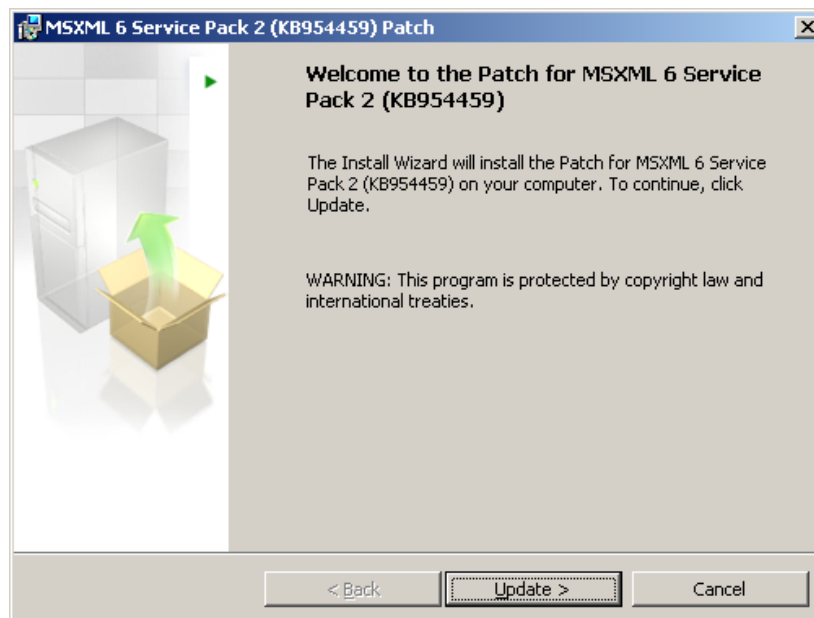
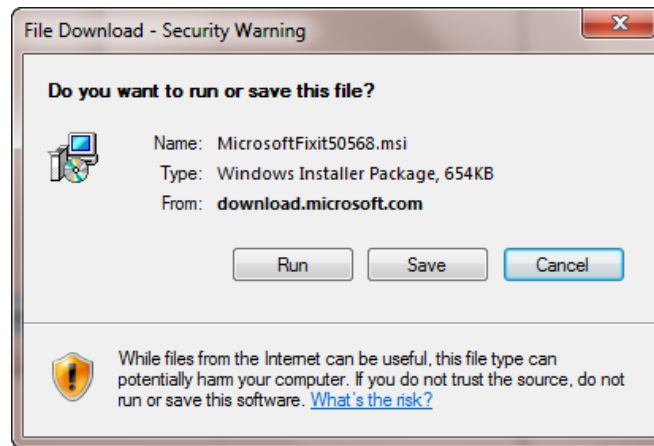
Fix it for me

To fix this problem automatically, click the **Fix this problem** link. Then click **Run** in the **File Download** dialog box, and follow the steps in this wizard.



Note This wizard may be in English only; however, the automatic fix also works for other language versions of Windows.

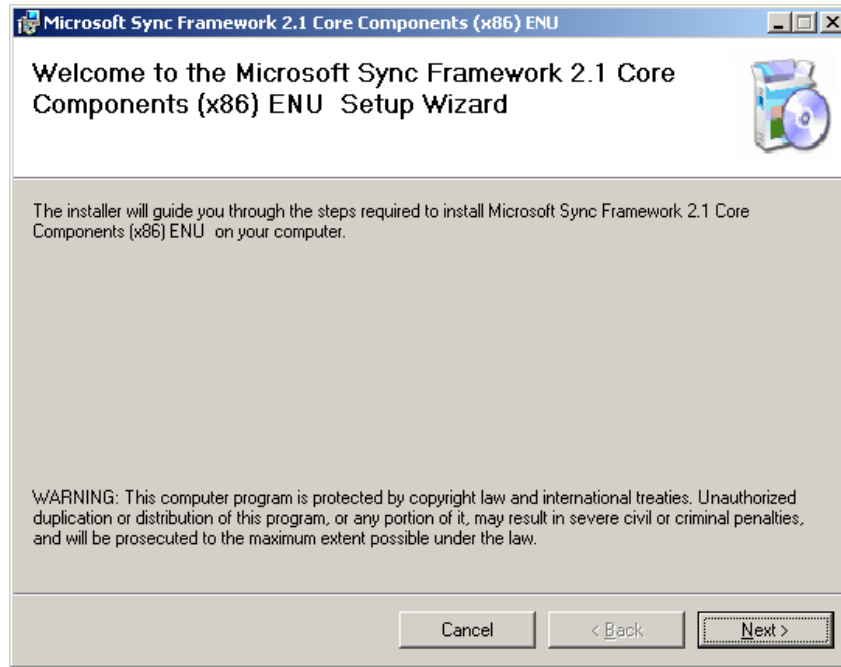
3. In the *File Download* dialog box, click the **Run** button. Then follow the steps displayed in this wizard.



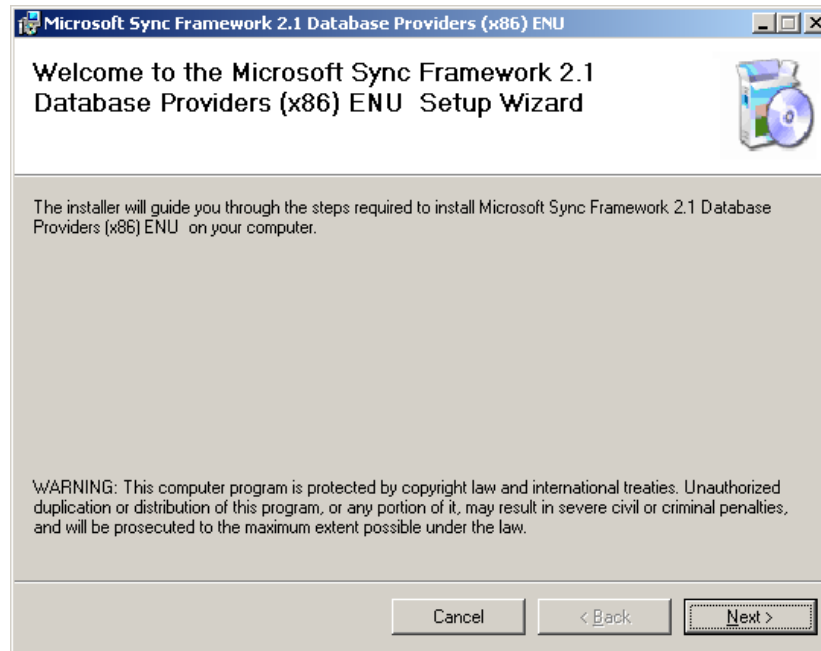
4. Run **SQLEXP.exe** again. This time the install should run without errors.

Installing Sync Framework 2.1 Redistributables

The following figure shows installing the **Sync Framework 2.1 Redistributables: 2nd_Synchronization-v2.1-x86-ENU.msi**. (This must be installed before the **3rd_DatabaseProviders-v3.1-x86-ENU.msi**).



The following figure shows installing the **Sync Framework 2.1 Redistributables: 3rd_DatabaseProviders-v3.1-x86-ENU.msi**.



1. For Windows 7 only: install the **Microsoft SQL Server 2005 Management Objects Collection: 4th_SQLServer2005_XMO.msi**
2. Open services.msc again, stop the Distributed Transaction Coordinator service, and Disable the service (Windows XP **only** – Windows 7 is set to Manual and doesn't need to be modified).
3. Close the Services console.

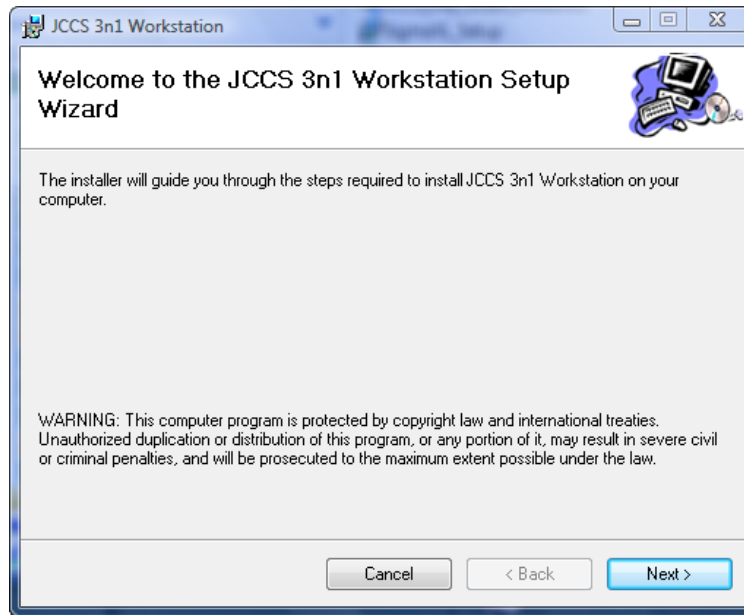
Installing the 3in1 Tool Workstation

1. Go to the location of the downloaded installation file, and double-click the file.

Windows XP: **4th_JCCS3n1 Workstation 3.1.0.1p.msi**

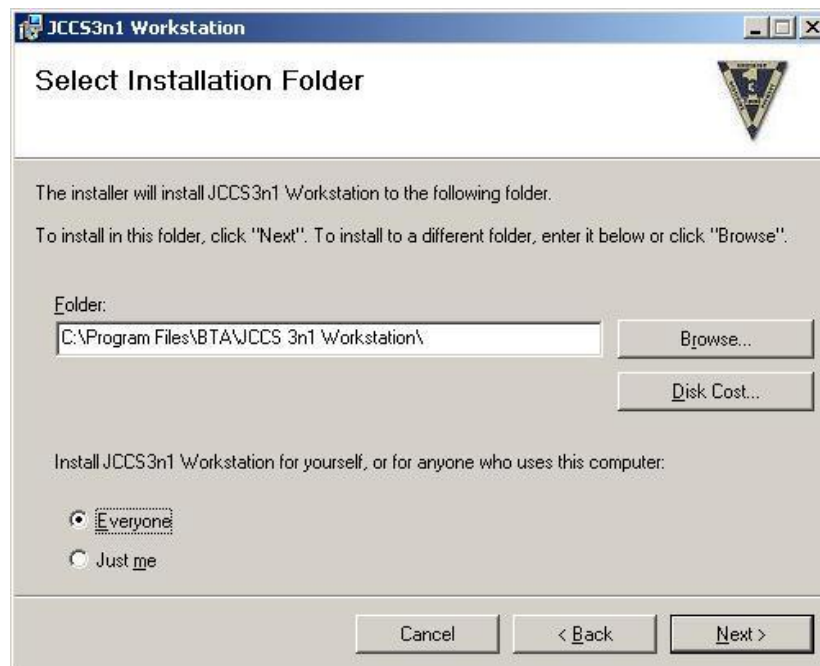
Windows 7: **5th_JCCS3n1 Workstation 3.1.0.1p.msi**

The installation Wizard is displayed.



JCCS 3in1 Installation Wizard Welcome Window

2. Click the **Next** button.

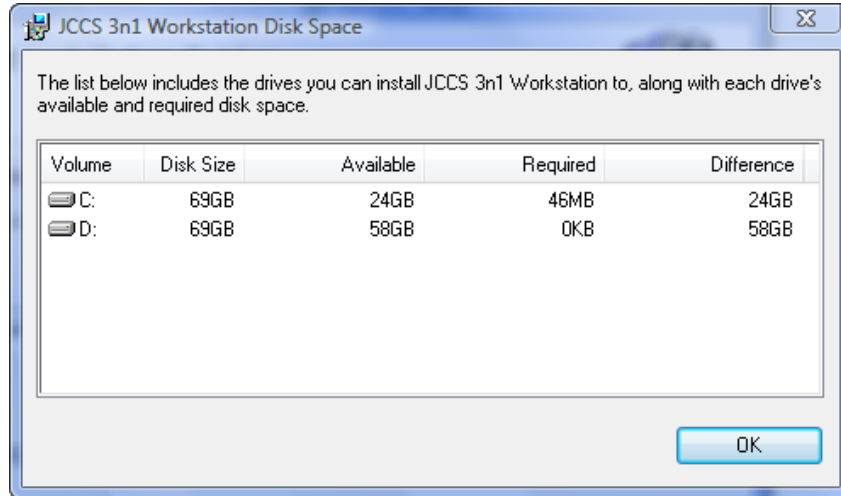


Select Installation Folder

It is suggested that you accept the default installation folder.

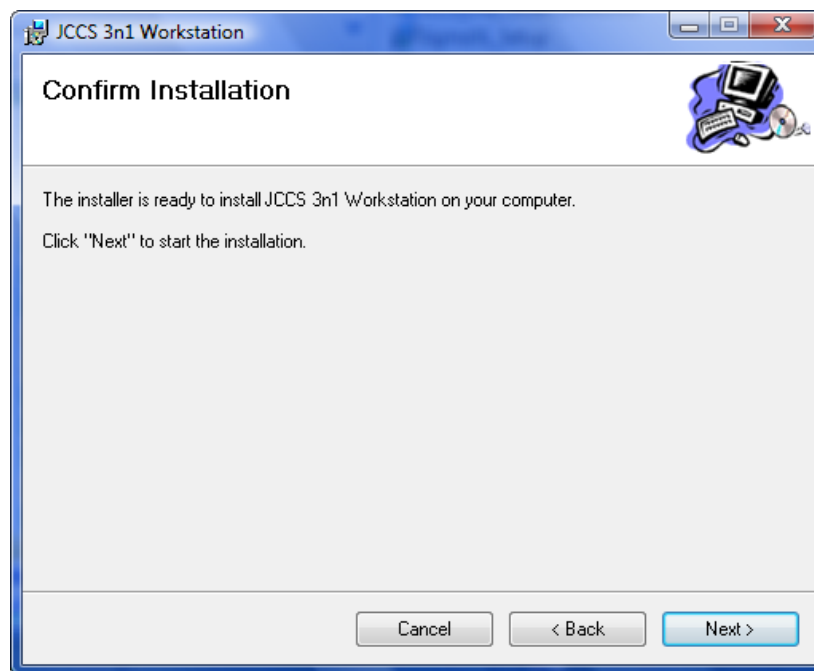
3. If you are the only user who should access the 3in1 Tool Workstation, click the **Just Me** radio button. If other people who share the computer should also have access, click the **Everyone** radio button.

Optional step: To see if there is sufficient disk space to install the 3in1 Tool Workstation, click the **Disk Cost** button. In the following dialog box, verify the Available amount exceeds the Required amount. If there is insufficient available disk space, ask your system administrator to help free up disk space. Click OK to close the window.



Available and Required Disk Space

- Click the **Next** button. The Confirm Installation screen is displayed.

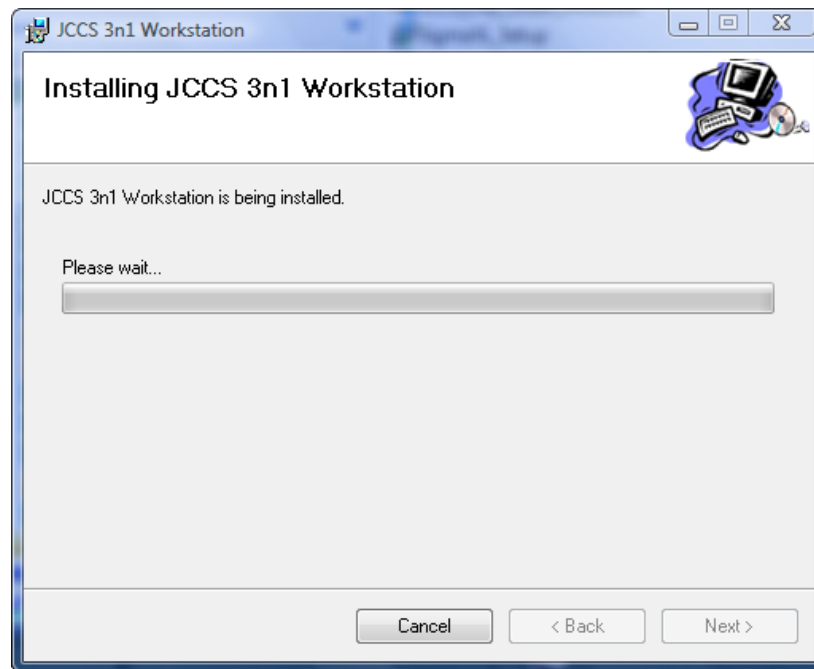


Confirm Installation

- Click the **Next** button to begin installation.

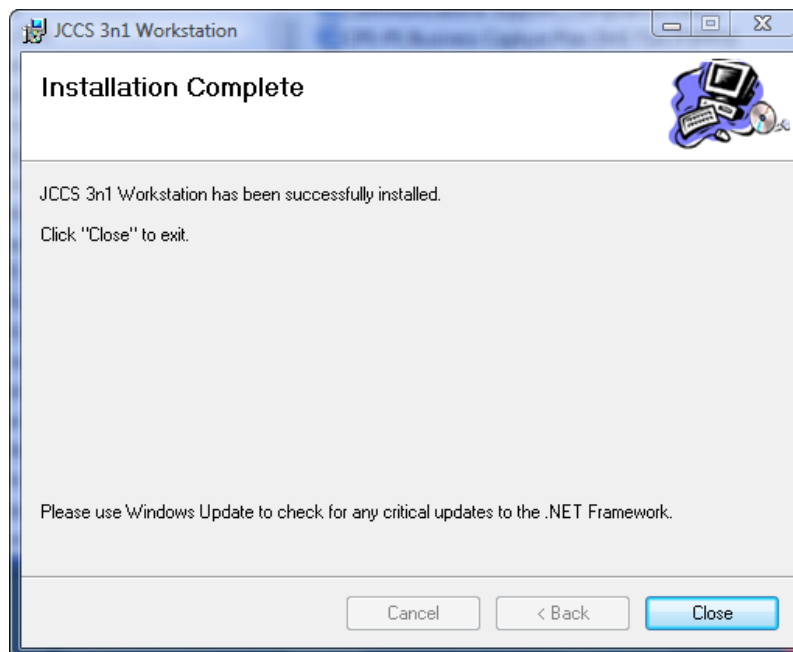
The following figure displays a progress bar that is updated as the installation progresses.

6. When the progress bar shows 100%, the installation is complete.



Installation Progress Window

7. The following screen confirms a successful installation. Click the **Close** button.



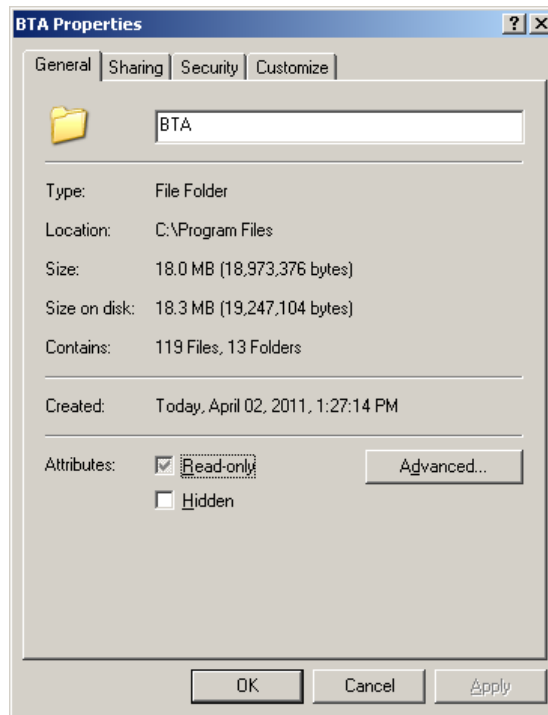
Installation Completion

After successfully installing the application, the next step is to register as a new user in the 3in1 Tool Workstation. Each 3in1 user must be registered with a unique user ID and password. The next lesson shows you how to complete user registration.

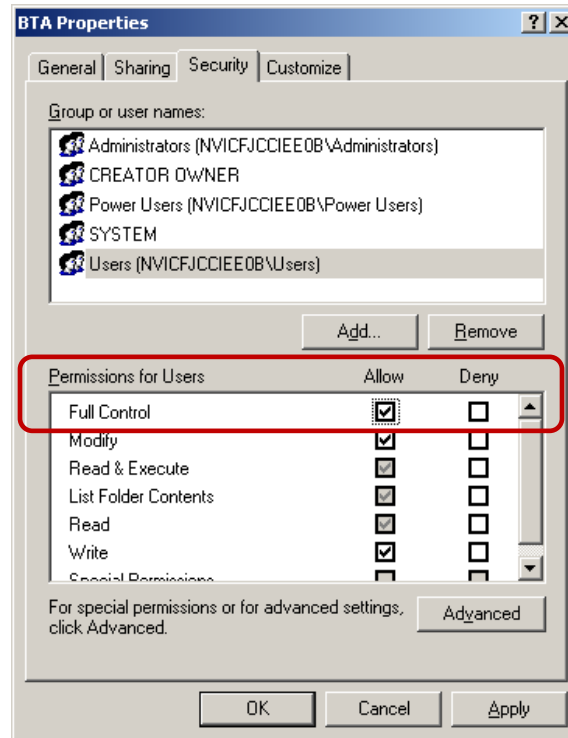
Post-Installation Instructions

After successfully installing the 3in1 Workstation software, it is necessary to make the C:\Program Files\BTA directory accessible to the user.

1. Use Windows Explorer to navigate to the 3in1 Workstation installation directory (C:\Program Files\BTA).
2. Right click the BTA directory and select **Properties**, then click the **Security** tab.



3. Highlight **Users** and in the **Allow** column, mark the check box beside **Full Control**. This is the proper security setting that enables a user to write and modify the database and create/view reports in the 3in1 directory.
4. Click OK.



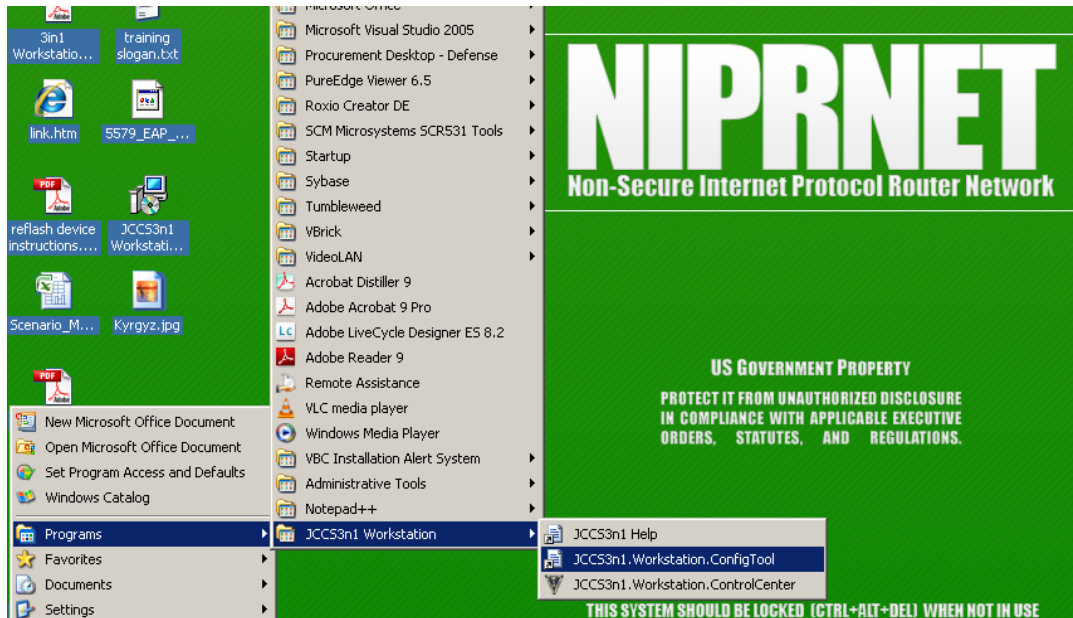
For users working on the Windows 7 operating system, it is necessary to complete an additional step in order for the 3in1 Workstation to function properly. The administrator of the computer needs to ensure that the proper URLACL reservation is created to allow the Offline Web Services to run on the user's local computer.

1. Start a command prompt with admin privileges by right-clicking the **Command Prompt** program under **Accessories** and selecting "**Run as Administrator.**"
2. Execute the netsh command to create the reservation. In the command prompt, type: **netsh http add urlacl url=http://+:9443/Svc user=\Everyone**
3. Verify that the URLACL reservation was created properly by typing: **netsh http show urlacl** in the command prompt. You should see the reservation you just created.

If you need to delete the reservation for some reason at a later time, type: **netsh http delete urlacl url=http://+:9443/Svc** in the command prompt.

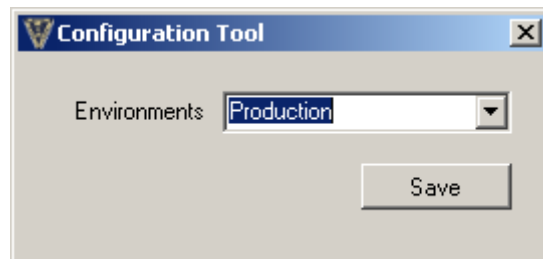
Selecting the Program Environment

1. Go to Start->Programs->JCCS3in1 Workstation->and click **JCCS3in1.Workstation.ConfigTool**.



2. In the Configuration Tool Environment dialog box, select the **Production** environment and then click the **Save** button.

Later, you may want to practice and can select the Training environment. Remember to change to the Production environment when you are ready to work.



Windows XP Installation Checklist

Use the following checklist to verify that you have completed all the steps required for a successful installation.

Afghan Image 1.57, Windows XP Software Install Checklist		✓
1	Log on using an account with Administrative privileges	
2	Enable and Start the Distributed Transaction Coordinator Service	
3	Verify that .NET 3.5 SP1 has been installed (Add or Remove Programs)	
4	Verify that ApproveIt v6.5 or later is installed (optional)	
5	Install SQL Server 2005 Express (When installing SQL, make sure you select all the SQL components. Accept the rest of the default options as you proceed through the menus.)	
6	Install Synchronization-v2.1-x86-ENU	
7	Install DatabaseProviders-v3.1-x86-ENU	
8	Install JCCS3in1 Workstation 3.1.0.1p	
9	Set the permissions on the 3in1 installation directory C:\Program Files\BTA to allow the "Users" group Full Control to the BTA directory and subdirectories	
10	Stop the Distributed Transaction Coordinator Service and set its Startup Type: to Disabled	
11	Reboot to allow the SQL Server Express Services to stop/restart from a system start	

Windows 7 Installation Checklist

Afghan Image 10.3 / 10.3a, Windows 7 Software Install Checklist		✓
1	Log on using an account with Administrative privileges, and select Run as Administrator to launch each installer.	
2	Verify the Distributed Transaction Coordinator Service startup is Manual	
3	Verify that Applocker is set to “Audit only” for Windows Installer rules	
4	Verify that ApproveIt v6.5 or later is installed	
5	Install SQL Server 2005 Express (When installing SQL, make sure you select all the SQL components. Accept the rest of the default options as you proceed through the menus.)	
6	Install Synchronization-v2.1-x86-ENU	
7	Install DatabaseProviders-v3.1-x86-ENU	
8	Install SQLServer2005_XMO	
9	Install JCCS3in1 Workstation 3.1.0.1p	
10	Set the permissions on the 3in1 installation directory C:\Program Files\BTA to allow the “Users” group Full Control to the BTA directory and subdirectories	
11	Create the URLACL reservation using the command line netsh http add urlacl url=http://+:9443/Svc user=\Everyone	
10	Reset Applocker is set to “Enforce rules” for Windows Installer rules if it had to be changed in Step 3	
12	Reboot to allow the SQL Server Express Services to stop/restart from a system start	

Proxy and Firewall Considerations

1. Ensure access to the following web sites are not blocked by the proxy/firewall.

<https://origin-www.jccs.gov>

<https://origin-www.jccs.gov/Svc>

<https://156.112.92.52>

<https://156.112.92.52/Svc>

<https://jccs.bta.mil>

<https://jccs.bta.mil/TrainingSvc>

<https://206.38.42.71>

<https://206.38.42.71/TrainingSvc>

2. Ensure proper routes and access to the following IP addresses:

156.112.92.52

206.38.42.71

3. Ensure the correct DNS setting for the following IP addresses:

156.112.92.52 resolves to origin-www.jccs.gov

206.38.42.71 resolves to jccs.bta.mil

4. Ensure there are no certificate rewrites for the following sites:

<https://origin-www.jccs.gov>

<https://jccs.bta.mil>

<https://origin-www.jccs.gov/Svc>

<https://jccs.bta.mil/TrainingSvc>

<https://156.112.92.52>

<https://206.38.42.71>

<https://156.112.92.52/Svc>

<https://206.38.42.71/TrainingSvc>

5. The following protocols and ports are used: HTTP and HTTPS; TCP 80 and 443.

6. When working offline the following local port is used and must be opened:

TCP port 9443 (Used for HTTPS link between device and workstation)

7. Add Program Exceptions to the Windows 7 Firewall for the following executables if necessary on the Private and Public networks:

C:\Program Files\BTA\JCCS 3n1 Workstation\JCCS3n1.Workstation.ControlCenter.exe

C:\Program Files\BTA\JCCS 3n1 Workstation\JCCS3n1.Workstation.ConfigTool.exe